

FIG. 2A

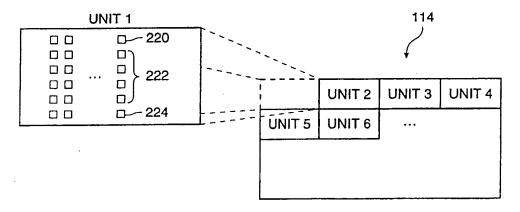


FIG. 2B

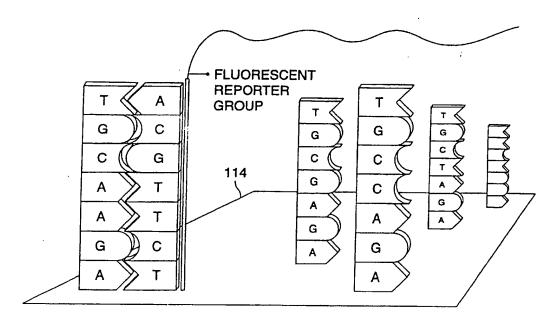


FIG. 2C

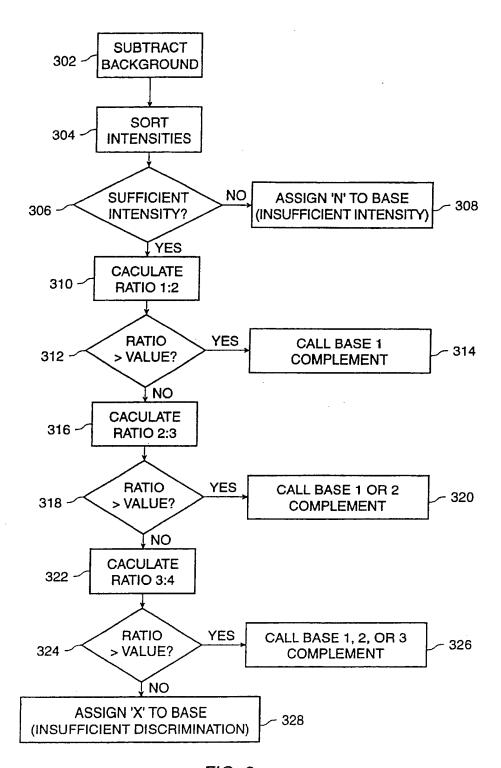


FIG. 3

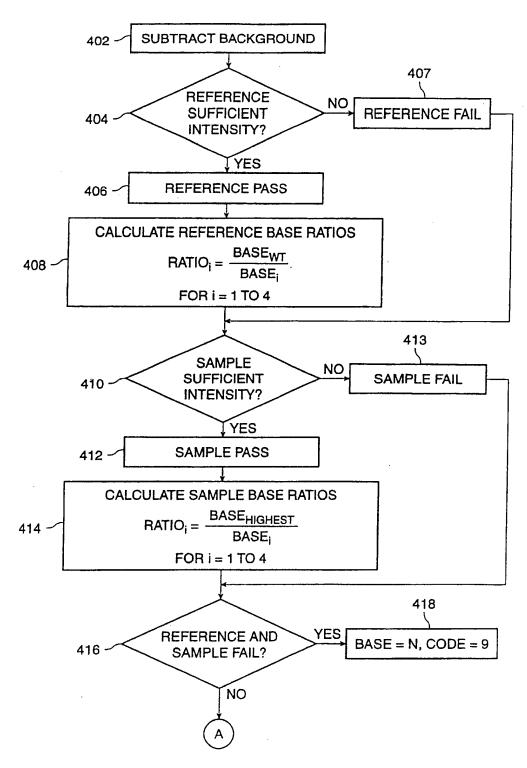


FIG. 4A

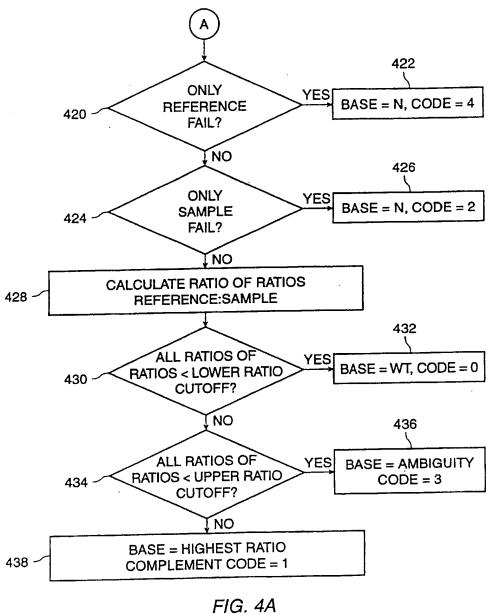


FIG. 4A (CONTINUED)

	A C G T A/A C/C G/G T/T BASE CONFIDENCE	-	18
	BASE	6.4 2.3 1.0 14.5 1.1 4.3 1.0 0.4 G	9 10 11 12 13 14 15 16 17
SO	1/1	0.4	16
PAT	9/8	1.0	15
RATIO OF RATIOS	200	4.3	4
P.A.	A'A	=	13
	<b>-</b>	14.5	5
	g	1.0	=
ш	O	2.3	2
SAMPLE	4	6.4	6
<i>1</i> S	BACK- GROUND	ď	8
	⊢	5.6	7
	၁	.2 9.9 1.0 5.6	9
RENCE	ပ	6.6	5 6
EREI	Α	7.2	4
REFER	BACK- GROUND	Р	ဇာ
	W	ပ	0
	POSITION WT	463	<del>-</del>

FIG. 4B

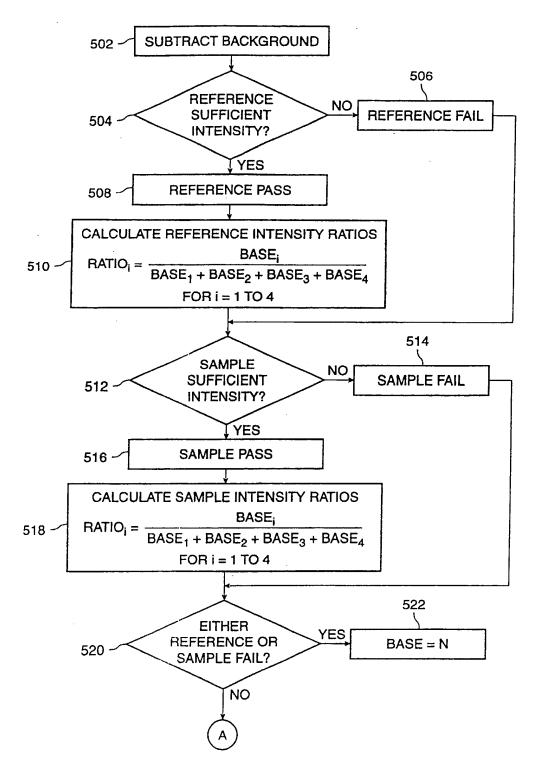
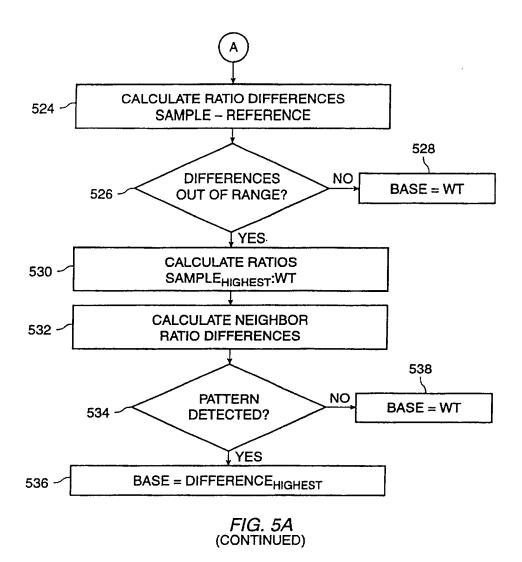


FIG. 5A



Probacozo; CCO1	BCK SUBTRACTED INTENSIT	ITENSI	TIES															Γ	
TION:  234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250  TYPE:  A A A C C C C A A T T C C A A T C C A C A	390203.CQ1	·-		ċ	4	£-	2	-	0	-	0	c.	4	rc	ď	-	0	c	
TYPE: A A C C C A A T T C C A A T T C C A A T T C C A A T T C C A A C T C A T T C C A A C T C A T T C C A A C T C A T T C C A A C T C A T T C C A A C T C A T T C C A A C T C A T T C C A T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C A T T C C A T C C A T C C A T C C A T C C A T C C A T C C A T C C A T C C A T C C C A T C C C A T C C C A T C C C A T C C C A T C C C C	POSITION:	23	1		237	238	239	240	241	_	+-	┿		2/6	277	, 076	0 6	»   S	
ED: A A C C C A A T T C C A A T T C C A A T T C C A C A	WILDTYPE:	<b>A</b>			O	O	ပ	4	4		+	┥		2 0	) <	9 1	27	200	
148 193 165 17 70 38 282 385 97 31 18 158 15 223 178 126 154  26 32 20 16 64 17 27 107 100 13 9 11 10 30 142 28 25 178 15 15 10 30 142 29 15 15 10 30 142 29 15 15 10 30 142 29 15 15 10 30 142 29 15 10 10 13 9 11 10 30 142 29 15 10 14 14 14 14 15 15 18 249 15 18 24 223 320 25 15 15 10 14 18 193 165 167 345 278 285 261 249 249 158 244 223 320 250 154 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	CALLED:	⋖			O	O	O	4	4	F	0	C	< □	) C	( <	- -	3 0	< 2	
26 32 20 16 64 17 27 107 100 13 249 276 28 25 115 10 30 142 59 15 10 10 13 10 10 30 142 59 15 10 10 13 10 10 30 142 59 15 10 10 10 30 142 59 15 10 10 13 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		148		<u> </u>	17	70	38	282	385	97	31	9 8	158		200	- 17k	2 8	¥ 5	_
26 32 20 16 64 17 27 107 100 13 9 11 10 30 142 59 55  240 340 238 207 522 347 374 671 598 298 279 182 276 298 896 487 421  148 193 165 167 345 278 282 385 261 249 249 158 244 223 320 250 154  10407.CQ1  234 235 236 237 238 239 240 241 242 243 244 223 320 250 154  TYPE:  A A A A C C C A A X X C C A C A C A C A		5.			167	345	278	38	66	<del> </del>		249		+-	8	25.7	3 5	5 4	
9 15 10 6 41 14 27 79 261 6 2 1 7 16 320 52 37 170N:  148 193 165 167 345 278 282 385 261 249 249 158 244 223 320 250 154 170N:  240 340 238 207 522 347 374 671 598 249 158 244 223 320 250 154 170N:  148 193 165 167 345 278 282 385 261 249 249 158 244 223 320 250 175 170N:  148 193 165 167 345 278 282 385 261 249 249 158 244 223 320 250 175 170N:  150 234 235 236 237 238 239 240 241 242 243 244 223 320 250 175 170N:  ED: M M A C C C C A A X X C C A C A C A X X M C C C A C A C A C A C A C A C A C A C		26			16	64	17	27	107	+	<del>1 -</del>	6.	+	; <del>c</del>	3 8	143	3 2	2 4	<b>≻502A</b>
240 340 238 207 522 347 374 671 598 298 279 182 276 298 896 487 421  148 193 165 167 345 278 282 385 261 249 249 158 244 223 320 250 154  00407.CQ1  234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 250 175  TYPE:  A A A C C C A A A T C C A A A T C C A A A T C C A A A T C C A A A T C C A A A A					9	41	14	27	79	261	ဖ	2	-	1	19	330	3 6	3 6	
148   193   165   167   345   278   282   385   261   249   249   158   244   223   320   250   154   175		24(	- 1		207	522	347	374	671			279	┾-	-	208	30,00	487	3 6	_
148   193   165   167   345   278   282   385   261   249   249   158   244   223   320   250   175     TION:	æ	148	- 1		167	345	278	282	385	_	<del>! -</del>	249	ļ	+	223	5 6	250	72.7	
90407.CQ1  10N: 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 179  FD: M M A C X C A X C A X C C C A X C C A C A C	ХЯ	148			167	345	278	282	385	<u> </u>	-	-	+	┰	22.60	3 6	3 6	<u> </u>	
TION: 234 235 236 237 238 239 240 241 242 243 244 245 245 246 247 248 249 250 250 250 250 250 250 250 250 250 250	MC090407.CQ1									+		+			3	320	200	2	
TYPE:	SITION:	23	1		237	238	239	240	241	+		+-			150	18	100		
ED: M M A C X C A X X C C A X X C C A C A X X C C A C A	DTYPE:	<b>▼</b>			C	C	C	2	4	+	+-	+			747	24g	243	Q .	
194         238         150         44         191         126         283         332         234         58         49         242         25         337         286         180         256           209         291         74         202         337         277         74         199         175         259         288         27         376         65         379         324         234           25         39         72         34         29         114         52         65         571         231         30         17         16         47         71         254         104         109           25         39         16         11         96         29         68         205         267         11         8         5         23         57         427         97         85           520         639         274         286         738         484         489         1307         906         357         356         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376	LED:	2			C	) ×	0	1	< >	- >	2	3 0	₹ •	3	₹ .	- ;	3	4	
209         291         74         202         337         271         74         199         175         259         288         242         25         337         286         180         256           92         72         34         29         114         52         65         571         231         30         17         16         47         71         254         109           520         639         774         286         736         267         267         11         8         5         23         57         427         97         88           520         639         274         286         738         484         489         1307         362         291         472         529         1346         705         684           194         238         150         202         337         277         283         332         267         259         288         242         376         337         427         324         256           194         238         150         202         337         277         283         332         267         259         288         242         376		Ìè	ļ	Ľ	77	\$ 2	2	+	< 8	3	7		<	د	4	×	×	Σ	,
203         291         74         202         337         277         74         199         175         259         288         27         376         65         379         324         234           25         39         16         11         96         29         68         205         267         11         8         5         23         57         427         97         85           520         639         274         286         738         484         489         130         357         362         291         472         529         134         705         684           194         238         150         202         337         277         283         332         267         259         288         242         376         374         276         256           194         238         150         202         337         277         283         332         267         259         288         242         376         377         427         324         256		2 2	1	1	1 8	2 6	07	<del></del>	332	234	28	-+	242	25	337	286	180	256	
92         72         34         29         114         52         65         571         231         30         17         16         47         71         254         104         109           25         39         16         11         96         29         68         205         267         11         8         5         23         57         427         97         85           520         639         274         286         738         484         489         130         357         362         291         472         529         1346         705         684           194         238         150         202         337         277         283         332         267         259         288         242         376         337         427         324         256           194         238         150         202         337         277         283         322         267         259         288         242         376         327         324         256		ő	- 1	/4	707	337	277	74	199		_	288		376	65	379	324	234	
25         39         16         11         96         29         68         205         267         11         8         5         23         57         427         97           520         639         274         286         738         484         489         1307         906         357         362         291         472         529         1346         705           194         238         150         202         337         277         283         332         267         259         288         242         376         337         427         324           194         238         150         202         337         277         283         332         267         259         288         242         376         337         427         324		6	- 1		29	114	52	65	571	231	30	17	9	47	7	25.4	Ş	2	<b>∑205B</b>
520     639     274     286     738     484     489     1307     906     357     362     291     472     529     1346     705       194     238     150     202     337     277     283     332     267     259     288     242     376     337     427     324       194     238     150     202     337     277     283     332     267     259     288     242     376     337     427     324		5			1	96	29	89	205	267	F	α	יט	2	27	107	5 6	3 8	
194 238 150 202 337 277 283 332 267 259 288 242 376 337 427 324 194 238 150 202 337 277 283 332 267 259 288 242 376 337 427 324		52(			286	738	484		307	+	+	+-	+			170	2 5	3 5	_
194 238 150 202 337 277 283 332 267 259 288 242 376 337 427 324	ш	197	1	ļ	202	337	277		332	+	+	┰				497	3 6	956	
77 77 77 77 77 77 77 77 77 77 77 77 77	E X	194			202	337	╌	283	332	+	+-	┼	┥—		+	20 4	17 6		
							+			+-	+-	┥	-		+	121	324	007 707	

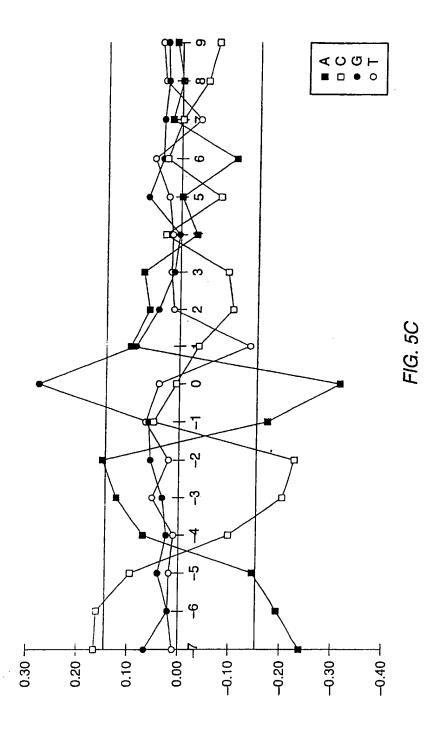
FIG. 5B

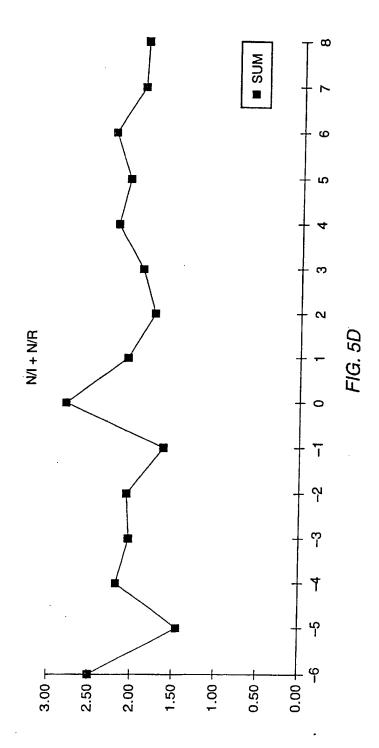
WTEAATD	Č	_	30	7	000	100	;											
	<u>.</u>	-	2.3	1.21	0.98	3	8.	0.86	1.02	1.04	1.15	1.54	1.54	1.51	1.23 0.91 1.21 0.98 1.00 1.00 0.86 1.02 1.04 1.15 1.54 1.54 1.51 1.34 1.30 1.66	30 1	99	
MAXEWTR	1.42		0.91	1.21	0.98	1.00	1.00	1.48	1.02	1.04	1.15	1.54	154	151	1.51 0.91 1.21 0.98 1.00 1.00 1.48 1.02 1.04 1.15 1.54 1.54 1.51 1.34 1.30 1.66	200	)	7 530
N-L + N-R		0.79	-0.63	0.54	0.25	0.01	0.14	0.94	0 14	5	0.97	38	2	3	0.79-0.63 0.54-0.25 0.01 0.14 0.94 0.14 0.10 0.7 0.38 0.04 0.14 0.19 0.00	3 5	3	
רַ		0 0	Ç	0.30	760	0 0	5	97	9,0	2		3 6	5 6	7	2	2	T	
0 2		3 6	20.0	20.0	77.	77.0	5.5	9	0.40	0.02	Ei	0.38	0.01	0.04	3.30 5.30 5.30 5.32 5.31 0.48 0.02 0.11 0.38 0.01 0.04 -0.17-0.04	.04	_	
L-2-		0.60	9 9	0.24	0.02	0.01	0.48	0.46	0.02	0.11	0.38	-0.01	0.04	0.17	0.60 -0.30 0.24 -0.02 -0.01 -0.48 0.46 -0.02 -0.11 -0.38 -0.01 0.04 0.17 0.04 -0.36	.36	_	ر 532
N-L D(N-R)			-0.90 0.54 -0.25 0.01 0.48 0.94 0.48 0.10 0.27 0.38 0.04 0.14 -0.13	0.54	0.25	0.01	0.48	0.94	0.48	0.10	0.27	0.38	0.04	0 14	13		T	
N-R D(N-L)	_		-0.90 0.54 -0.25 0.01 -0.48 0.94 -0.48 -0.10 -0.27 0.38 0.04 0.14 -0.13	0.54	0.25	0.01	3.48	0.94	0.48	0.10	0.27	0.38	0 0	14	12 6	-	Γ	
L(N-L) - (N-R)L			0.29	0.07	0.22	0.02	0.49	000	0 44	0 13	50	30	0.29 0.07 0.22 0.02 0.49 0.02 0.44 0.13 0.50 0.39 0.31 0.31	5 6	2 6	+	-	
A+B-C			-2.10 1.01-0.73 0.00-1.44 1 86 1.1 40-0.33 1.103 0.06 0.06 0.00	101	0.73	000	1 44	1 86	4	33	2 5	300	3 6	200	7.0	+-	Τ	
SUM MT/ SUM WT	_							3	?	3	3	20.5	2	8	0.40	+	T	
INTENSITIES	2.16		1.15	1.39	1.41	1.39	1.31	1.95	1.52	1.20	30	60	1 71	1 78	1.88 1.15 1.39 1.41 1.39 1.31 1.95 1.52 1.20 1.30 1.60 1.71 1.78 1.60 1.46 1.60	Ų.		
N/L + N/R		2.50	1.45	2.18	2.04	2.05	1.61	2.77	2 04	171	1 80	2 18	33	200	2.50 1.45 2.18 2.04 2.05 1.61 2.77 2.04 1.71 1.89 2.18 2.03 2.23 1.89 4.85	2 4	3	
N-L + N-R		0.22	-0.48	0.10	0.02	0.03 (	3.36	0.54	90.0	0.21	10	2 C	3 6	1 7	0.22-0.48 0.10 0.02 0.03 0.36 0.54 0.06 0.21 10 10 10 10 10 10 10 10 10 10 10 10 10	3 5	T	
N-L		-0.28	-0.73	0.21	0.03	0.02 (	90.0	0.54	0.43	0.32	0.10	3 0	10	200	-0.28-0.73 0.21 0.03-0.02-0.09 0.54-0.43 0.32 0.10 0.30 0.10 0.07 0.05	2 8	1	
N-R		0.73	-0.23	0.03	0.02	0.09	7.64	0.43	0.32	0.10	0.30	0.10	0.07	0.27	0.73-0.23-0.03 0.02 0.09-0.64 0.43 0.32 0.10 0.30 0.10 0.07 0.27 0.06-0 18	3 &	T	
																-	T	
																_		

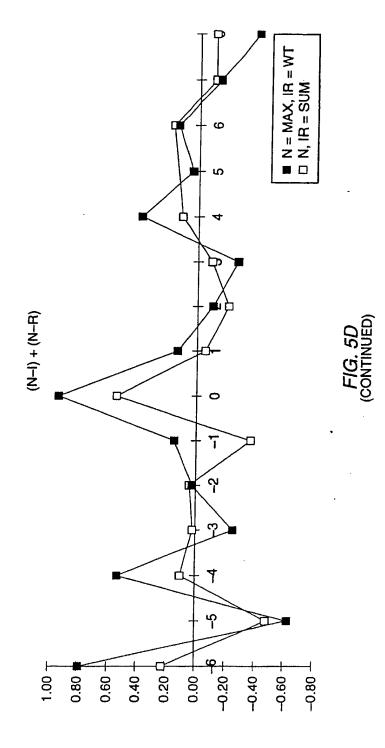
FIG. 5B (CONTINUED)

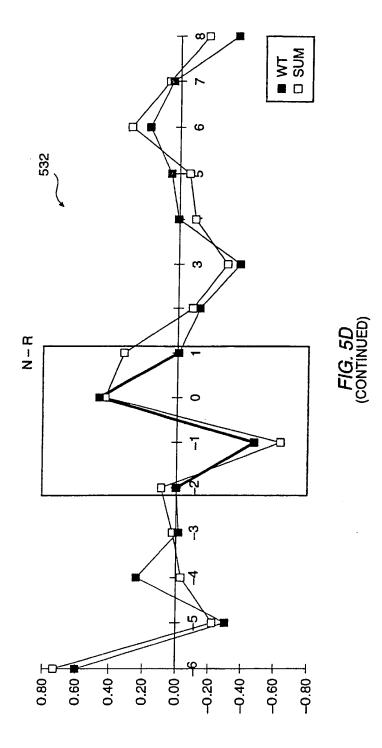
		_		510	)	_	_		و نا ا	218		_								\ 524	- T		_	
			0.37	0.42	0.13	0.09	j	0.37	0.34	0.16	2	0.1Z			220	٧	Σ	5	2 6	70.0	0.03	20		$\top$
			0.26		0.12	0.11			0.46	0.25 0.08 0.05 0.06 0.10 0.13 0.19 0.15	,,,	0.14			249	ပ	×	5	20.0	0.03 50.03 50.01 50.03 50.07				
			0.23 0.03 0.00 0.00 0.75 0.20	0.23	0.04 0.10 0.16	0.36	3	0.40 0.70 0.00 0.00 0.04 0.21	0.12 0.13 0.13 0.13 0.12 0.80 0.09 0.80 0.12 0.28	0.19	000	7:00			248	F	×	0.07 -0.04 0.00 0 11 0.01	200	2.0	0.03 0.03	0.07 0.04 -0.14 0.01 0.01 0.01 0.02 0.05 -0 04 0.03	2	
		j	0.75	S) :	0 2 2	0.05		0.0	0.12	0.13	0 05 0 44	-			7.7	A	۷	0 11	000	0.03	0.03	0.05		
		8	0.0	0.83	0.04	0.07 0.12 0.44 0.02 0.01 0.01 0.03 0.05	100	co.o	0.80	0.10	200				Ň	ပ	ပ	000	000	S 2.5 2.	0.03 0.03 0.03 0.28 0.09 0.04 0.01 0.00 0.06 0.03	0.02		
		0	0.0	20.0	9	0.01	6	3	60.0 0.0	0.06	000 000	7.05		_	7	∢	A	-0.04	0	3	0.00	0.01		
		0		0.0		0.0	9	2 6	) (2)	0.05	0 0	30.0			Ÿ	اد	ပ	0.07	9	2	0.0	0.01		
		5		0.08 0.12 0.05 0.07 0.15 0.17 0.01 0.00	0.0	0.05	0	9 6	7/5	0.08	0 03	3			ij		ပ	20-0.15 0.07 0.12 0.15 -0.18 0.32 0.09 0.06	.16 0.09 -0.10 -0.20 -0.23 0.05 0.00 -0.04 -0.11 -0.10	5	0.0	0.01		
			2 6	2 5	3 6	0.44	90 0	2 0	2	0.25	0.29			272		1	×	0.09	-0 04		0.0	-0.14		L
		0 75 0 57	0.81 0.66 0.80 0.10 0.15	2 4		2	.37 0.55 0.15 0.26 0.26 0.58 0.25	2 4	2	0.15 0.11 0.13 0.44	0.16			244	7	1	×	0.32	0 00		0.28	0.04		
L	_	T -	6			2	0 55	5	3	0.13	0.14	_		240	2 <		۷	-0.18	0.05		0.03	0.07		
	_	0.13 0.11	0 80	20.0	200	5	0.26	0 57	3	0.1	0.06 0.04 0.13 0.06			230	3		ပ	0.15	0.23	0	0.03	0.05 0.02		
_	_	3 0.13	0.66	0 15			0.26	0.46		0.15	0.13			238	٥	L	×	0.12	-0.20	5				L
		0.08	3 0.81	000			0.15	0 71		0.10	0.04			236 237	۲	ı	د	0.07	1-0.10	00 0 00 00	70.0	0.01		
		0.70	9 0.18	0.08	0 0		0.55	76 0 5	1	0.12						L	¥	-0.15	0.09	0	5	0.05		·
	_	0.57	1 0.29	0	'  C	2	0	0	6	>	90.0			1 235	I	L			0	_	)	0.05		
ITIES		0.61	0.24	0.11	0.04		0.37	0.40	c	<u>0</u>	0.05	_		234	4		≥	0.24-0	0.17	0.07	2	0.01		 
NORMALIZED INTENSITIES	WILDTYPE	А	S	9		MUTANT	А	O	9	, , , , , , , , , , , , , , , , , , ,		MT - MT (NORMALIZED	INTENSITIES)	POSITION:	WILDTYPE:	CALLED			اد	<u>ග</u>	 			

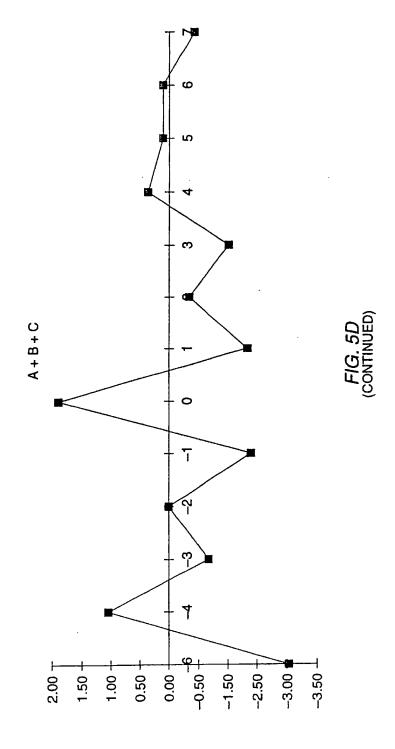
*FIG. 5B* (CONTINUED)











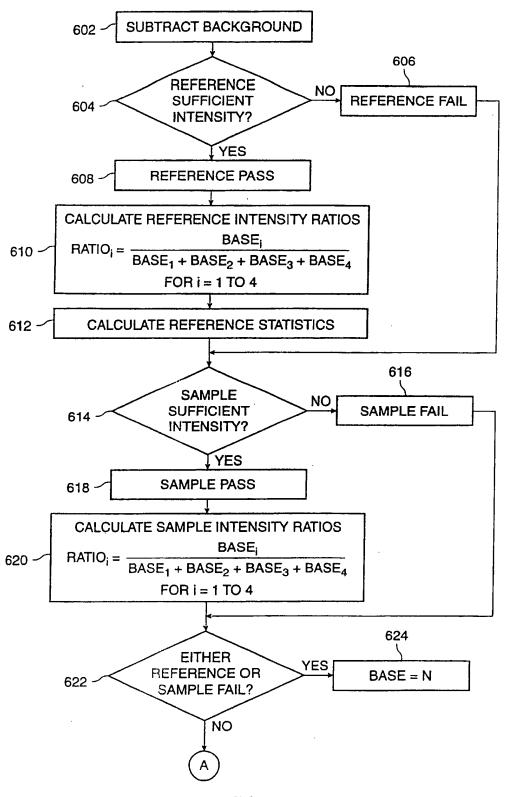


FIG. 6

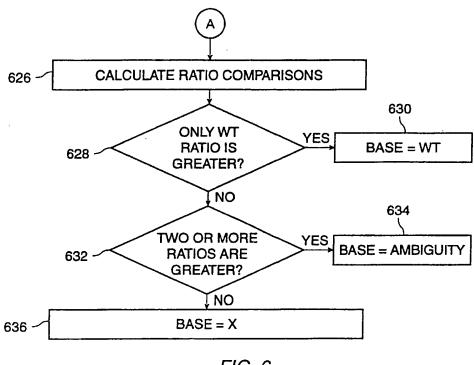


FIG. 6 (CONTINUED)

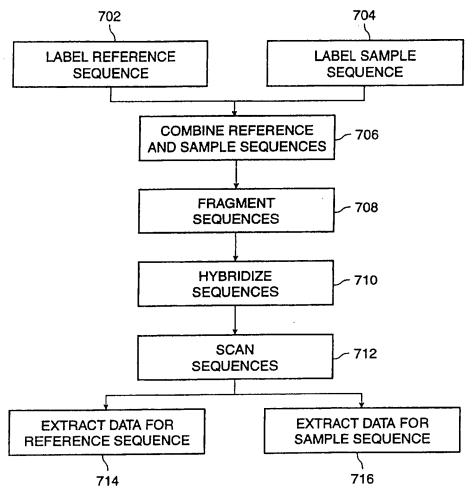
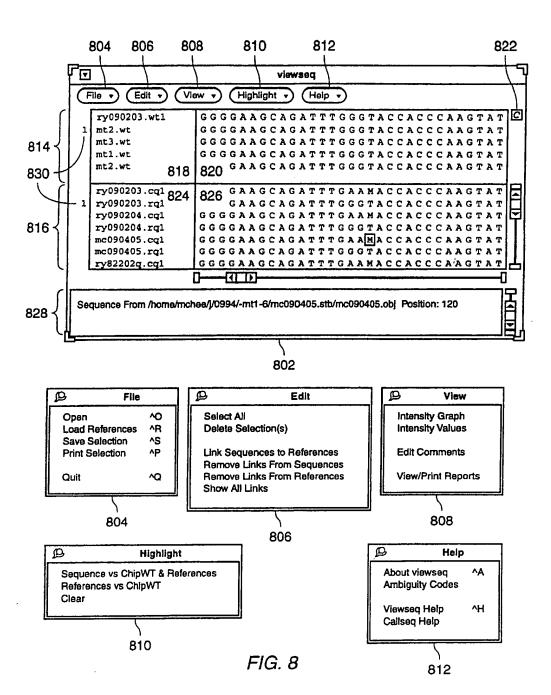
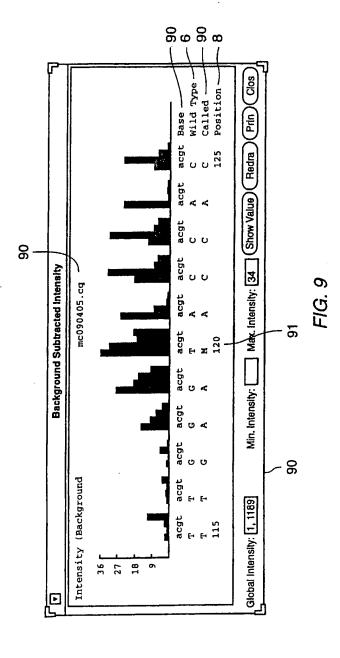


FIG. 7





...

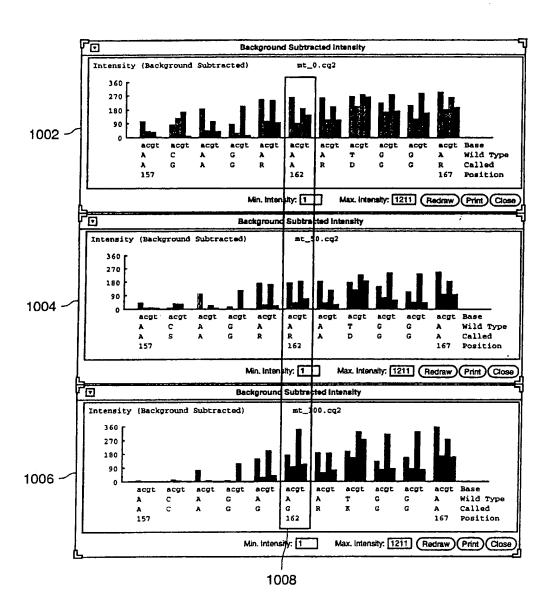


FIG. 10

-----

FT	O		ם וו	, · · ·
	(View v)       (Highlight v)         GCATTAGTAGAGATACAGAAATGGAAAAGGAAAGGGAAAATTTCAAAAATTGGGCC         GCATTAGTAGAGATACAGAAATGGAAAAGGAAAGGGAAAATTTCAAAAATTGGGCC         GCATTAGTAGAGATACAGAAATGGAAAAGGAAAGGGAAAATTTCAAAAATTGGGCC	GCATTAGTAGAGATATGGAGAGRARANCXXAAGGGAAAATTNNNAAAATTGGGCC GCATTAGTAGAGATATGKASAGRARNDGGRAAXXXAAGGGAAAAKTNNNAAAATTGGGCC GCATTAGTAGAAGATATGKASAGRRRDGGRAAXXXAAGGGAAAADTYNNNAAATTGGGCC GCATTAGTAGAGATATGTASAGRRADGGAAAXGGAAGGGAAAATTNNNNAAATTGGGCC GCATTAGTAGAAGATATGTACAGRQAGGAAAXGGAAGGGAAAATTNNNNAAATTGGGCC GCATTAGTAGAAGATATGTASAGRQAGGGAAAXGGAAAATTNNNNAAATTGGGCC	1108	FIG. 11
	mt_0.wt2	mt_0.cq2 mt_10.cq2 mt_25.cq2 mt_50.cq2 mt_75.cq2 mt_100.cq2		

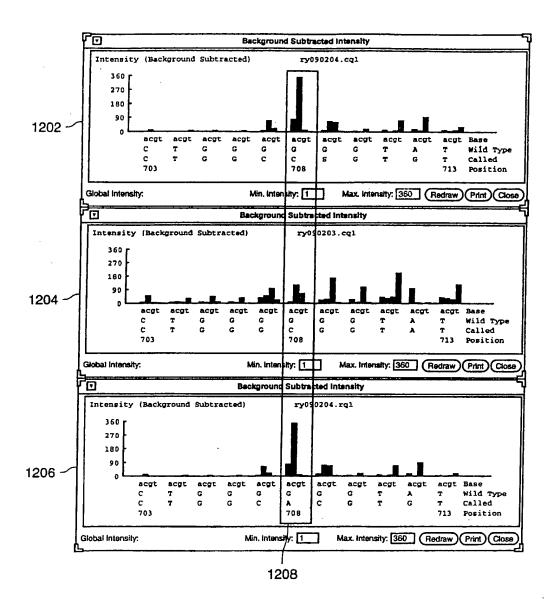


FIG. 12

CONSENSUS	PRE-TREATMENT		POST-TREATMENT	
togagataatotatgtoctogtotactatgtoataatottotttaottaaaoggtoottttaootttggtttttaotato CONSENSUS 90 100 100 110 120 120	togagataatotatgtootogtotactatgtoataatottotttaactaaagggtootttaacetttactaata PRE-TREATMENT togagataatotatgtootogtotactatgtoataatottotttarttaartaataataataa	negggatantutatgteetegteyaetatgteannnnennnennneaaaeggteeheeregeteetegeteetegeteetegeteetegeteetegeteete	togagataatetatgteetegtetaetatgteataat <b>eennuenn</b> et <b>e</b> aaaeggteetyeennnytggttnytaetate tegagataatetatgteetegtetaetatgteataat <b>eennne</b> taetteaaaeggteettetaeett <sub>e</sub> taet <sub>tetaetat</sub> e	Logagataatetatgteetegtetaetatgteataatetteette

POST-TREATMENT cmmettaacetecaaaatagttteattetgteataetagtetatgggtagetttagacameegtatttegatateeatgt PRE-TREATMENT cccttaacctccaaaatagtttcattctgtcatgctagtctatggacatctttagacacctgtatttcgatatccatgt CONSENSUS 170 180 190 200 210 210 220 230 240 ccccttaacctccaaaatagtttcattctgncatacnnstctannxnnagxgttagacacctgtatttcgatatccatgt cmccttaacctccaaaatagtttcattctgtcatactagtctatgagtagctttagacacctgtatttcgatatccatgt cccttaacctccaaaatagtttcattctgncatannagtctatgngnngnnntagacagncnnnntcgatatccatgt  $ccmcttaacctccaaaatagtttcattctgtcatactagtctatgg<math>oldsymbol{gtag}$ cttta $oldsymbol{gtag}$ caacat $oldsymbol{c}$ cnnentaacetecaaaatannnnnntetnnnnnannntetannngnagnnnaganarneennnnnnnatneatgt aawcycaacctccaaaatannnnnntctnnnnnanncnctnnnnnagngnnagacacctgtatnnnntatncaygt comettaacetecaaaatagttteattetgteat**a**etagtetatg**agtag**etttagaeaeetgtatttegatateeatgt

FIG. 13